OAKLAND COUNTY MICHIGAN	**SEALED BID** PROPOSAL FORM	L. BROOKS PATTERSON - OAKLAND COUNTY EXECUTIVE **OAKLAND COUNTY PURCHASING DIVISION**

SOLICITATION QUOTATION – MAINTENANCE

Contact Information: Oakland County Purchasing Division Building 41 West - Lower Level 2100 Pontiac Lake Road Waterford, MI 48328	Buyer:	Daniels, Joan Ellen
	Phone:	(248)858-5481
	Fax:	(248)858-1677
	Email:	danielsj@oakgov.com

Solicitation Event ID: 003207	**Response Due:** 1/13/2015	**By:** 10:00 AM

Eastern Time

Event Title: FMO Metal Detector & X Ray Upgrade
Category Codes:

The Oakland County Purchasing Division is issuing a Request for Proposal (RFP) seeking bidders to perform services as detailed in Attachment (B).

Index:

- Proposal Form (This Form)
- Attachment (A) – Mailing Label
- Attachment (B) – Solicitation Specifications
-
- Oakland County Maintenance Contract Boilerplate (for information purposes only) can be viewed on the Oakland County Purchasing website http://www.oakgov.com/purchasing/Pages/form_application/Default.aspx

General Submission Information:

- This solicitation event can be accessed at the Michigan Inter-governmental Trade Network (MITN) website: www.mitn.info

- It's the bidder's responsibility to insure that responses are received in the Purchasing Division prior to the date and time specified. Purchasing Division's address, due date and time are listed on the first page of the proposal form. The responsibility rests entirely with the bidder, notwithstanding delays resulting from postal handling or for any other reasons. No late or misdelivered bids will be accepted. The official time clock shall be the date/time stamp machine located at the Purchasing Division main office located at the address listed above.

- Sealed bid responses may only be delivered to the Oakland County Purchasing Division.
  - Package must be sealed.
  - Package must have the provided mailing label affixed to the outside of the package.
  - Package must list the submitting company's name, contact person and address.

  - Deliver to: ***Oakland County Purchasing Division***
    Building 41 West – Lower Level
    2100 Pontiac Lake Road
    Waterford, MI 48328

- Bid responses shall be accepted at the Oakland County Purchasing Division any time during the normal course of business only; said hours being 8:30 A.M. to 5:00 P.M. Eastern Time, Monday through Fridays, excluding legal holidays.

- All questions regarding this solicitation should be submitted in writing or email (preferred) to the buyer listed on page one of the proposal form. Subject line must include the solicitation event number listed on page one of the proposal form.

Submissions:
- This proposal form must be signed by a person authorized to bind and commit the company to provide such goods and /or services offered to the County should their bid be accepted by the County.
- The bidder acknowledges that the County is a public entity and therefore is subject to public disclosure laws.

Modifications:
- Prior to opening the solicitations, clarifications, modifications, or amendments may be made to the solicitation at the discretion of Oakland County Purchasing Division. Should any such changes be made, an addendum will be issued and posted on the Michigan Inter-governmental Trade Network (MITN) website. www.mitn.info
- It's the responsibility of the bidder to check the website for addendums.

Contract Requirement:
- A copy of the County's Maintenance Contract boilerplate can be viewed on the Oakland County Purchasing website http://www.oakgov.com/purchasing/Pages/form_application/Default.aspx. Bidders are encouraged to review the contract boilerplate with the proposed terms and conditions. Review the insurance requirements in PARAGRAPH 6.2. and Exhibit I Contractor Insurance Requirements, Lines 1a, 1b, and 1c. The successful bidder will be required to comply with same. Awarded bidder shall provide required insurance documentation upon notice of award.

Specifications:
- Specification response requirements must be submitted with signed proposal form.
- Failure to include in the response all information outlined in this RFP may be cause for rejection of the response.

Alternatives to Specifications:
- Bidders may offer alternatives from the expressed specifications described by the County. The County reserves the right to consider and accept or reject such alternatives. Alternatives must clearly describe all variances from the specifications herein. Provide product literature, specification sheets and drawings with bid if providing an alternate.

Withdrawal:
- Responses may be withdrawn by writing or electronic notice provided such notice is received by the Purchasing Division prior to the time set for the opening of the responses.

Award Information:
- Organizations may be requested to submit a completed, signed Federal W-9 form prior to an award of a contract or purchase order.
- Awarded bidder shall provide required insurance documentation upon notice of award.

Terms and Conditions:

No late or misdelivered proposals will be accepted.

The official time clock shall be the date/time stamp machine located at the Purchasing Division main office located at the address listed above.

The Respondent shall be responsible for all costs incurred in the development and submission of this response. Oakland County assumes no contractual obligation as a result of the issuance of this RFP, the preparation or submission of a response by a Respondent, the evaluation of an accepted response, or the selection of finalists. Oakland County shall not be contractually bound until Oakland County and the successful Respondent have executed a written contract for performance of the work.

Submission is a conclusive presumption that the bidder is familiar with the RFP, Contractual Requirements, and Specifications and that the bidder understands and agrees to abide by each and all of the stipulations and requirements contained herein. Any exceptions to the stipulations should be submitted separately. Each response should be prepared simply and economically, providing a straightforward concise description of the proponent's approach and ability to meet the County's needs, as stated in this RFP.

All prices shall be quoted in U.S. dollars. Unless Respondents specifically note otherwise, any and all quoted prices will be firm. If the vendor's consumer pricing is reduced during the term of the contract, the lower price will apply. In case of error in the extension of prices in the response, the unit prices shall govern.

The County of Oakland reserves the right to reject any or all solicitation responses, awarding the solicitation to other than the lowest priced solicitation response and to waive any irregularities and /or formalities. Also to accept any solicitation response which, in its judgment, best serves the County's interest.

The County of Oakland reserves the right to request any additional information which might be deemed necessary after the submission of this document to bidder, and after responses from bidder have been received by the County.

The County of Oakland reserves the right to conduct interviews, reference checks, and any other due diligence deemed necessary to select the successful bidder.

The County of Oakland reserves the right to split or abstract any or all bids and award multiple contracts from the same solicitation based on price, availability, and services when in its judgment best serves the County.

All work shall be performed in a professional manner and shall be consistent with the practices of the trade.

The Contractor shall be responsible for any permits and inspections.

All labor and materials shall be in accordance with applicable building, safety, and fire codes.

Shipping terms are to be F.O.B Destination unless otherwise stated in the solicitation specifications.

E-Verify – Prior to contract award all County Contractors are required to comply in accordance with Miscellaneous Resolution No.09116 (BOC Minutes, July 30, 2009, pp 37-38), unless otherwise exempted, all service contractors and/or vendors who wish to contract with the County to provide services must first certify they have registered with, will participate in, and continue utilize, once registered, the E-Verify Program (or any successor program implemented by the federal government or its departments or agencies) to verify the work authorization status of all newly hired employees employed by the contractors and/or vendors. Breach of this term or conditions is considered a material breach of a contract.

Contractor's/Vendor's submitting bid responses agree that the contractor/vendor will registered with, and will participate in, and will continue utilize once registered and throughout the term of a contract, if one is offered, the E-Verify Program (or any successor program implemented by the federal government or its departments or agencies) to verify the work authorization status of all newly hired employees employed by the contractors and/or vendors.

Pursuant to Michigan law, (*the Iran Economic Sanctions Act, 2012 PA 517, MCL 129.311 et seq*.), before accepting any bid or proposal, or entering into any contract for goods or services with any prospective Vendor, the Vendor must first certify that it is not an "IRAN LINKED BUSINESS, as defined by law.

All County Contractors are required to comply with all Federal, State, or Local laws. The County reserves the right to cancel the contract for services if the contractor has not done so. Failure to comply with all Federal, State, or Local laws either currently or historically is a consideration in the bid evaluation process as well. Such compliance shall include, but not be limited to, non-discrimination against any employee or applicant for employment because of sex, race, religion, color, national origin, or handicap in violation of State and Federal law; prohibition of use of any copyrighted software contrary to the provisions of any applicable Software license agreement or State or Federal law; compliance with all applicable grant requirements if any part of a Contract is supported or paid for with any State or Federal funds granted to the County; compliance with the Immigration Reform and Control Act (IRCA) and I-9 employment verification requirements. Any and all future Federal, State, or Local laws must also be complied with while the contractor is providing services/products to the County.

Vendors that have been found guilty or held civilly liable for violation of any federal or state law, or have been barred and/or declared ineligible from consideration in receiving any federal, state or municipal contract, must provide information as part of their proposal on all such violations / barrings / ineligibilities.

Pursuant to Act 167 of the Public Acts or 1933, the County of Oakland, A Michigan Constitutional Corporation, is exempt from the sales tax provisions of this Act. In addition, the Michigan Department of Treasury has promulgated General and Specific Sales and Use Tax Rules which provide that the County of Oakland is not required to have a sales tax exemption number. (R205.79; Rule 29)

For reporting purposes – County of Oakland I.D. #38-6004876W.

EXHIBIT I

CONTRACTOR INSURANCE REQUIREMENTS

1. At all times during this Contract, including renewals or extensions, Contractor shall obtain and maintain insurance according to the following specifications:

   a. Commercial General Liability - with the following as minimum requirements:

      $3,000,000 – Each Occurrence (Total Limit)
      Occurrence Form Policy
      Broad Form Property Damage
      Premises/Operations
      Independent Contractors
      Products and Completed Operations
      (Blanket) Broad Form Contractual
      Personal Injury - Delete Contractual Exclusion
      Additional Insured: The County of Oakland and County Agents (as defined in this Contract);

   b. Workers' Compensation - as required by law and $500,000 Employer's Liability;

   c. Automobile Liability and Property Damage - $1,000,000 each occurrence, including coverage for all owned, hired and non-owned vehicles including No Fault coverage as required by law;

2. General Certificates of Insurance:

   a. All Certificates of Insurance shall contain evidence of the following conditions and/or clauses and shall be sent to: The County of Oakland and County Agents, Oakland County Purchasing Division, 2100 Pontiac Lake Road, Bldg 41W, Waterford, MI 48328-0462 or fax 248-858-1677.

   b. The County of Oakland and County Agents (as defined in this Contract) shall be named as "General Liability" Additional Insured with respect to work performed by the Contractor.

   c. All Certificates are to provide 30 days written notice of material change, cancellation, or non-renewal. Certificates of Insurance or insurance binders must be provided no less than ten (10) working days before commencement of work to the Oakland County Purchasing Division. Insurance carriers are subject to the approval of Oakland County.

VENDOR CERTIFICATION THAT IT IS NOT AN "IRAN LINKED BUSINESS"

Pursuant to Michigan law, (*the Iran Economic Sanctions Act, 2012 PA 517, MCL 129.311 et seq.*), before accepting any bid or proposal, or entering into any contract for goods or services with any prospective Vendor, the Vendor must first certify that it is not an "IRAN LINKED BUSINESS, as defined by law.

Vendor	
Legal Name	
Street Address	
City	
State, Zip	
Corporate I.D. Number / State	
Taxpayer I.D. #	

The undersigned, with: 1) full knowledge of all of Vendors business activities, 2) full knowledge of the requirements and possible penalties under the lawMCL 129.311 et seq. and 3) the full and complete authority to make this certification on behalf of the Vendor, by his/her signature below, certifies that: the Vendor is NOT an "IRAN LINKED BUSINESS" as required by MCL 129.311 et seq., and as such that Vendor is legally eligible to submit a bid and be considered for a possible contract to supply goods and/or services to the County of Oakland.
I have reviewed the terms and conditions and insurance requirements prior to submitting this bid solicitation. Proposal Form (pages 1-6) must be returned signed with your bid response.

_____
Signature of Vendor's Authorized Agent

_____ _____
Printed Name of Vendor's Authorized Agent — Date

003207

_____
Witness Signature — Solicitation Event Number

_____
Printed Name of Witness:

See Attachment (A)
Shipping / Fax / Email Label

ATTACHMENT (A)

Bid Solicitation Check Sheet:

☐ Original plus 3 additional hard copies or CDs (As per Solicitation Specifications)

☐ Signed Proposal Form

☐ Complete Solicitation Specification Requirements

☐ Affix your company address, contact person and phone number on the exterior of package

☐ Affix label below to exterior of package if mailing or shipping

☐

Notice: If shipping by United States Postal Service allow two extra days for the County's internal mail delivery process.

Fill in your company information below

Please cut below dotted line and affix to mailing envelope or package.

FROM:

Company Name: _____

Contact Person: _____

Phone Number: _____

Email: _____

SEALED

Solicitation Event Title: **FMO Metal Detector & X Ray Upgrade**

Solicitation Event Number: **003207**

Buyer Initials: **JED**

Due Date: **1/13/2015** **Time:** **10:00 AM** E.T.

OAKLAND COUNTY MICHIGAN

BID

DELIVER TO:

OAKLAND COUNTY PURCHASING DIVISION
EXECUTIVE OFFICE BUILDING 41W - LOWER LEVEL
2100 PONTIAC LAKE ROAD
WATERFORD MI 48328

Fill in your company information above
Proposal Form (pages 1-6) must be returned signed with your bid response.
Affix this label to the exterior of your package.

BID FORM

Refer to all related bid documents including Instructions to Bidders, Project Description, General Conditions and Requirements, Technical Specifications, etc. and be bound by all requirements contained in same.

BIDDER'S (COMPANY) NAME AND LEGAL STATUS

_____

_____

_____

SUBMITTED IN THE NAME OF (INDIVIDUAL)

Name: _____

Title: _____

Date: _____

BIDDER'S ADDRESS

_____

_____

_____

BIDDER'S PRIMARY BUSINESS

_____

TEAM MEMBERS

1. List the name as applicable, of all companies who will be subcontractors to the bidder, assisting with responsibilities for the following:

_____

_____

_____

_____

_____

_____

BID INFORMATION

1. Number of weeks after award of contract that shop drawings for metal detectors will be submitted?

_____

2. Number of weeks after award of contract that shop drawings for X-ray units will be submitted?

_____

3. Number of weeks after approval of equipment shop drawings that all work at the first location will be complete?

_____

4. Number of weeks after approval of equipment shop drawings that all work at the last location will be complete?

_____

5. For metal detectors, indicate maximum response time via telephone once contacted via telephone?

_____

(Hours)

6. For metal detectors, indicate maximum service response time to arrive at site, once notified via telephone?

_____

(Hours)

7. For X-ray machines, indicate maximum response time via telephone once contacted via telephone?

_____

(Hours)

8. For X-ray machines indicate maximum service response time to arrive at site, once notified via telephone.

_____

(Hours)

BASE BID AMOUNT

The undersigned, having familiarized itself with the Bidding Documents, does hereby propose to perform the work, services and materials required by this contract as described by the bidding documents (and in accordance with the Bidding Documents) for the sum of:

Metal Detectors:

_____Dollars ($.)
(print amount)

X-ray Inspection Units:

_____Dollars ($.)
(print amount)

TOTAL:

_____Dollars ($.)
(print amount - Total must equal break down indicated above)

MANDATORY ALTERNATES

Bidder to submit Mandatory Alternate Pricing. Refer to Specification Section 012300 “ALTERNATES” for a description of Alternates.

Alternate #	Add/Deduct	Amount
1	Deduct	($.)
		_____ *(print amount)*
2	Deduct	($.)
		_____ *(print amount)*
3	Add	($.)
		_____ *(print amount)*
4	Add	($.)
		_____

VOLUNTARY ALTERNATES

The undersigned submits the following Voluntary Alternate prices which are to be deducted from the Base Bid in the event the Owner elects to accept any one or more of the Alternates.

VA1 (describe):

_____

_____ Dollars ($.)
(print amount)

VA2 (describe):

_____

_____ Dollars ($.)
(print amount)

VA3 (describe):

_____

_____ Dollars ($.)
(print amount)

If required to adequately describe voluntary alternates, provide detailed description on separate letterhead attached to Bid Form.

ADDENDA

The undersigned hereby acknowledges receipt of the following addenda:

Addendum No. _____, Dated _____

Addendum No. _____, Dated _____

Addendum No. _____, Dated _____

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for alternates.

B. Attention is directed to all Bidding and Contract Requirements and General Requirements, including those issued by Oakland County Purchasing, as well as all other specification sections, which are hereby made a part of this Section. Refer to Solicitation document for Oakland County Purchasing general requirements.

C. Refer to Section 281000 GENERAL REQUIREMENTS.

D. Refer to Section 282000 METAL DETECTORS.

E. Refer to Section 283000 X-RAY INSPECTION UNITS.

F. The Contractor and all subcontractors, suppliers, vendors, etc. will be engaged to perform work related in a highly confidential and proprietary environment. All technical specifications, submittals and other documentation related to this project are considered confidential information and must remain secure at all times.

1.1 THE CONTRACTOR

A. Where the term "Contractor" is referred to in these specifications or on plans, it shall refer to the company or entity who holds the contract with Oakland County. The contractor shall be responsible to furnish and install all equipment and leave the installed equipment ready for beneficial use by the County.

1.2 CONFIDENTIAL DOCUMENTS

A. The Contractor will be engaged to perform work related in a highly confidential and proprietary environment. All technical specifications, submittals and other documentation related to this project are considered confidential information and must remain secure at all times.

1.2 MANDATORY ALTERNATES

A. Mandatory alternates are required to be submitted with the bid.

B. Mandatory alternates shall be clearly indicated as same.

C. Base bid shall be in accordance with request for proposal requirements Mandatory Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Oakland County decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

D. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

E. Alternates:

1. Alternate #1:

   Furnish and install Garrett PD 6500i metal detectors in lieu of specified **Ceia** units.

2. Alternate #2:

   The County will remove from the site and dispose of metal detectors. Disposal of metal detectors by this contractor is removed from the scope of the contractors work.

3. Alternate #3:

   Furnish and place in storage at the lower level of the County Main Courthouse, one additional metal detector unit.

4. Alternate #4:

   Furnish and place in storage at the lower level of the County Main Courthouse, one additional X-Ray inspection unit.

1.3 VOLUNTARY ALTERNATES

A. Voluntary Alternates are not required to be submitted. Bidders are encouraged to submit voluntary alternates which add value to the project. Only voluntary alternates that result in a credit will be considered.

B. Voluntary alternates shall be clearly indicated as same.

C. Base bid shall be in accordance with request for proposal requirements.

D. Voluntary Alternate: An amount proposed by bidders and stated on the Bid Form for certain work proposed by the bidder that may be deducted from the Base Bid amount if Oakland County decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. The credit for each alternate is the net deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

2. Include in the alternate as applicable all programming revisions necessary to complete or eliminate the work of the alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.

D. Alternates, whether requested or voluntary, shall state the net dollar amount to be deducted from the Base Bid Amount, in the event the Alternative is accepted.

E. Any Alternates may be elected at any time within 45 calendar days after execution of the Contract by written notice to bidder of such election. Any alternate not so elected within said 45 day period is rejected. Acceptance of, or rejection of, Alternate Bids is subject to the discretion of Oakland County.

F. Alternate Bid Amounts shall include all required costs for execution of the Alternate including all applicable taxes, permits, handling, overhead and profit, fees and similar charges or expenses. Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

2. Include in the alternate as applicable all programming revisions necessary to complete or eliminate the work of the alternate.

G. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

H. Execute accepted alternates under the same conditions as other work of the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012300

SECTION 281000 – GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes General Requirements related to the furnishing and installation of walk through type multi zone metal detector units and X-Ray Inspection Units.

B. Attention is directed to all Bidding and Contract Requirements and General Requirements, including those issued by Oakland County Purchasing, as well as all other specification sections, which are hereby made a part of this Section.

1.2 THE CONTRACTOR

A. Where the term "Contractor" is referred to in these specifications or on plans, it shall refer to the company or entity that holds the contract with Oakland County. The contractor shall be responsible to furnish and install all equipment and leave the installed equipment ready for beneficial use by the County.

1.3 CONFIDENTIAL DOCUMENTS

A. The Contractor will be engaged to perform work related in a highly confidential and proprietary environment. All technical specifications, submittals and other documentation related to this project are considered confidential information and must remain secure at all times.

1.4 WORK INCLUDED

A. Furnish and install complete walk through type metal detectors and X-Ray Inspection units at various County buildings. Equipment to be installed, positioned, programmed, started up, calibrated and tested by a trained factory authorized technician.

B. Provide all set up and programming as coordinated with County Security Officers.

C. Equipment anchoring.

D. Ensure new equipment is properly grounded in accordance with manufacturers requirements.

E. Ensure existing 120 volt receptacle to be used for power is properly located, of the correct voltage and wiring device configuration to serve the new equipment.

F. For each metal detector furnished and installed, provide a copy of the final unit program (programming) on a flash drive (one per unit) for County records. Label with address and equipment serial or identification number.

G. For each X-Ray inspection unit furnished and installed, provide a copy of the final unit program (programming) on a flash drive (one per unit) for County records. Label with address and equipment serial or identification number.

H. Provide all detachable tools, keys, discs, etc. shipped with the units. Turn over to the County.

I. Include all demolition and disposal of existing units. Refer to Alternate # 2 description, described under Alternates. For this alternate, The County will remove from the site and dispose of metal detectors.

J. Project management and coordination as required through project completion.

K. Construction progress documentation as required to keep the County informed of project progress and scheduling.

L. All submittals including the following:

Bid submission data.

Shop drawings.

Operation and maintenance manuals.

M. Temporary facilities as required to perform the work required by contract.

N. Closeout procedures.

O. Operation and maintenance data.

P. Demonstration and training.

Q. Testing and Commissioning as required to verify and demonstrate proper operation in accordance with unit specifications.

R. Execution of Warranty.

1.5 UNITS INCLUDED

A. The work shall include the removal of and installation of new Metal Detector units and X-Ray inspection units, at the following County locations:

1. Main Courthouse Complex:
   1200 N. Telegraph Rd.
   Pontiac, MI 48341

A. Main Courthouse - South Entrance

Replace two X-Ray inspection units with new units.

B. Main Courthouse - North Entrance

Replace one X-Ray inspection units with new unit.
Replace one metal detection units with new unit.

C. Courthouse - West Wing Extension

Replace one X-Ray inspection unit with new unit.
Replace one metal detection unit with new unit.

D. Board of Commissioners Auditorium- Public Entrance

Replace one metal detection unit with new unit.

2. Oak Pointe - Friend of the Court
230 Elizabeth Lake Rd.
Pontiac, MI 48341

Replace one X-Ray inspection unit with new unit.
Replace one metal detection unit with new unit.

3. Clarkston Courthouse
52-2 District Court
5850 Lorac
Clarkston, MI 48346

Replace one X-Ray inspection unit with new unit.
Replace one metal detection unit with new unit.

4. Rochester Courthouse
52-3 District Court
700 Barclay Circle
Rochester Hills, MI 48307

Replace one X-Ray inspection unit with new unit.
Replace one metal detection unit with new unit.

5. Troy Courthouse
52-4 District Court
520 W Big Beaver Rd.
Troy, MI 48084

Replace one X-Ray inspection unit with new unit.
Replace one metal detection unit with new unit.

6. Novi Courthouse
   52nd District Court
   48150 Grand River Ave.
   Novi, MI 48374

   Replace one X-Ray inspection unit with new unit.
   Replace one metal detection unit with new unit.

7. Oakland County Materials Management
   1155 Oakland Ave.
   Pontiac, MI 48340

   Replace one X-Ray inspection unit with new unit.

8. Provide one spare metal detection unit. Place in storage at the lower level of the Main Courthouse, exact location as directed by County staff.

1.6 WORK NOT INCLUDED

A. 120 volt receptacle required for unit power is existing. This contract does not include any 120 volt wiring revisions.

B. Data jacks or wiring required for ethernet is existing. This contract does not include any data wiring or jacks.

1.7 EQUIPMENT LOCATION

C. New equipment will generally be located in the same location as existing with the exception of the Novi 52 District Court where a renovation project will locate equipment in the same general area as the existing. For the Novi 52 District Court only, plans showing equipment locations will be made available to the successful bidder.

D. The installation location of equipment shall be reviewed and approved by the County prior to installation. Where necessary, mark the equipment location on the floor with tape in order to convey the location. Receive County sign off prior to proceeding with the installation.

E. The responsibility for ensuring the installed location is correct and approved by the County rests solely with the contractor. The final installed location of all equipment shall be approved by the County.

1.8 WORK HOURS AND CONTINUOUS WORK

A. Work may be performed Monday through Friday between 5 PM and 7 AM or on Saturday or Sundays 7 AM to midnight.

B. Metal detection and X-Ray inspection shall be available at all project locations during normal business hours.

C. Metal detectors and X-Ray units shall be replaced at the same time.

D. Once work has begun at any location, it shall be performed continuously until the work is complete including system testing. The intent is that when the County arrives for the start of business the next morning, the systems are operational.

1.9 QUALITY ASSURANCE/RELIABILITY

E. Installation shall comply with all applicable codes.

F. All equipment shall be new, in current production, and the standard products. Manufacturer shall be certified as complying with the standards of ISO-9001 for quality control.

G. Metal Detectors shall comply with all regulatory requirements related to Human Exposure to Electromagnetic Fields". Provide proof and documentation with equipment.-

H. Unit shall conform to ASTM F2401-04 Standard "Standard Practice for Security Checkpoint Metal Detector Screening of Persons with Medical Devices".

I. Unit shall conform to Standards documented in ASTM C 1270-97 and ASTM C 1309-97.

J. Manufacturer shall guarantee availability of parts, for a minimum of (7) years from date of Owner Acceptance.

K. System shall be installed and programmed by a factory authorized and approved contractor with technicians specifically trained on this system.

L. On-site maintenance and repair service shall be available locally and within (4) hours of notification for emergency conditions.

1.10 SUBMITTALS

A. With Bid: Include with the bid, general product literature depicting the equipment on which the bid is based. Include sufficient detail to convey conformance with bid requirements.

B. Shop Drawings: Following award of contract, submit for approval, complete equipment shop drawings including equipment list, data sheets, system description and block diagrams, etc. Include complete equipment performance specifications. Include all literature and documentation required to verify conformance with specifications.

C. Close Out: Provide close out documents as herein specified. Include all operation and maintenance manuals.

1.1 CODES, PERMITS, AND FEES

A. All required permits, licenses, inspections and approvals shall be secured and all fees for same paid by this Contractor.

B. References to standards, codes, specifications, recommendations, etc., shall mean the latest edition of such publications adopted and published at date of invitation to submit Bid Proposals.

1. Applicable Standards and Codes:
   a. In addition to requirements specified, comply with the applicable standards, specifications, and codes listed below:

   b. Listing of associations, codes, standards and abbreviations:

ASTM	American National Standards Institute
NEC	National Electrical Code
ANSI	American National Standards Institute
IEEE	Institute of Electrical and Electronics Engineers
ASTM	American Society for Testing Materials
NEMA	National Electrical Manufacturers Association
UL	Underwriters Laboratories, Inc.
NFPA	National Fire Protection Assoc.

C. All work shall be in accordance with the State of Michigan, Department of Consumer and Industry Services, Bureau of Construction Codes, Part 8, Electrical Code.

D. For all codes, the edition of the code, or year code, shall be that enforced by the authority having jurisdiction at the time of permit application. The Contractor shall verify with the authority having jurisdiction the edition of the code in effect.

1.2 BARRIER FREE DESIGN

A. Equipment shall where applicable conform to the Handicapped Barrier Free regulations including the State of Michigan Barrier Free requirements and the American with Disabilities Act.

1.3 DOCUMENT AND SITE REVIEW

A. Before submitting a Proposal, this Contractor shall review the documents in order to arrive at a clear understanding of the project requirements and the work required and the conditions under which work is to be performed.

B. Bidders are encouraged to visit the site of all buildings, during normal working hours in order to arrive at a clear understanding of the project conditions and requirements and the conditions under which work is to be performed. Public buildings may be visited during normal business hours. For non-public buildings, notify the County Purchasing agent in writing of the desire to visit the building and arrangements will be made.

1.4 MANUFACTURER'S INSTRUCTIONS

A. All operating instructions, service instructions, parts list, etc., which are shipped with equipment, are to be retained and on completion of the work, turned over to the County. If this information is not shipped, this Contractor shall obtain said information from the manufacturer.

1.5 ASSEMBLY OF EQUIPMENT

A. Equipment shall be assembled, installed, wired and programmed only by a technician of the manufacturer.

B. The catalog number as mentioned may not be complete to designate all options, accessory parts and appurtenances required for the particular use or function. Provide all features, functions, options, etc. as described by specifications regardless of the model number or series mentioned. It shall be the responsibility of the Contractor to provide the equipment complete with all accessories as required for a complete and operable system including all special finishes as indicated.

1.6 USE OF EQUIPMENT

A. The use of any equipment or any part thereof for purposes other than testing, even with Oakland County’s consent, shall not be construed to be an acceptance of the work on the part of Oakland County, or to be construed to obligate Oakland County in any way to accept improper work or defective materials.

1.7 SETTING DRAWINGS AND TEMPLATES

A. Provide all necessary templates, patterns, etc., for installing work and for the purpose of making adjoining work conform. Maintain separation between metal detectors and adjacent metal detectors or X-Ray inspection units as required to conform to the manufacturer’s installation requirements.

1.8 PROTECTION, HANDLING AND CLEANING

A. Responsibility for care and protection of work and equipment is the sole responsibility of the Contractor.

B. After delivery, before and after installation, protect equipment and materials against dampness, theft, injury or damage from all causes.

C. Protect existing receptacles which will be used to serve new equipment.

D. Provide adequate storage space for all electrical equipment conduit and materials delivered to the job site under a weather protected enclosure. Location of the space will be designed by the County Contractor.

E. Transport, receive, unload, properly house, handle, hoist, and deliver to proper location all equipment required for completion of the contract.

F. Be responsible for keeping the premises free from accumulations of waste materials and rubbish. On a daily basis, remove all rubbish from and about the building and leave the systems and equipment clean and ready for use.

1.9 PARTS RECEIPT

A. Retain all portable and detachable portions of the installations such as keys, tools, manuals, etc., until the completion of the work and turn them over to Oakland County's and obtain itemized receipt. This receipt shall be attached to the "Final Application" for payment.

1.10 OWNERS ACCEPTANCE

A. Oakland County acceptance shall be officially received by the Contractor using the written "Owner Acceptance Document". This document will be provided by Oakland County upon request by the Contractor. It will state that the installation has been accepted by Oakland County and the date of acceptance. Warranty periods shall not being until this document is received by the Contractor. The warranty periods shall begin as of the date indicated as the acceptance date. The "Owner Acceptance Document" will be issued only by the Oakland County Facilities Planning and Engineering Project Engineer.

B. It shall be the Contractors responsibility to expeditiously complete revisions, corrections, programming, etc. identified through system testing, operating and punch listing in order to receive the "Owner Acceptance Document".

C. Submission for approval of all test reports or testing documents required shall be a condition of Oakland County acceptance. The "Owner Acceptance Document" will not be issued sooner than 30 days following the submission for approval of all test reports or testing documents required.

1.11 WARRANTIES

A. The Contractor shall be solely responsible for the execution of all warranties. Regarding warranty issues, the County shall only communicate with the Contractor. It shall be the Contractor's responsibility to communicate and coordinate with all manufacturers, suppliers, installers, etc. regarding warranty issues, claims, etc.

B. Provide one year warranty from date of County Acceptance. Warranty periods shall not begin until the Oakland County Acceptance Document has been received, by the Contractor, with the

signature of the Contractor and the County Project Manager. The warranty periods shall begin as of the date indicated as the acceptance date on the Oakland County Acceptance Document.

1.1 EXISTING EQUIPMENT DISPOSAL

A. All existing metal detectors and X-Ray inspection units shall be removed from the site, transported and properly disposed of by this contractor. Contractor shall follow all regulations related to disposal of all parts and materials.

B. All disposals shall be in accordance with the State of Michigan and Oakland County requirements. Any materials disposed of in a State other than Michigan shall be in accordance with that's State's and County's requirements for disposal.

C. Once equipment has been disconnected and taken off line, it shall be removed from the site immediately. Storage in the facility of existing equipment taken off line is not allowed.

D. For all metal detectors and X-Ray inspection units, provide the County with a disposal receipt from a licensed waste disposal company. Include unit serial numbers on the receipt. If removed equipment is to be refurbished, rebuilt, sold or donated, notify the County in writing with same and include the unit serial numbers.

E. Refer to Alternate # 2 description, described under Alternates. For this alternate, The County will remove from the site and dispose of metal detectors. Disposal of metal detectors by this contractor is removed from the scope of the contractors work.

PART 2 - PART 2 - PRODUCTS (Not Used)

PART 3 - PART 3 - EXECUTION (Not Used)

END OF SECTION 281000

SECTION 282000 – METAL DETECTORS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes Walk Through type multi zone metal detector units.

B. Attention is directed to all Bidding and Contract Requirements and General Requirements, including those issued by Oakland County Purchasing, as well as all other specification sections, which are hereby made a part of this Section.

1.2 THE CONTRACTOR

A. Where the term "Contractor" is referred to in these specifications or on plans, it shall refer to the company or entity that holds the contract with Oakland County. The contractor shall be responsible to furnish and install all equipment and leave the installed equipment ready for beneficial use by the County.

1.3 CONFIDENTIAL DOCUMENTS

A. The Contractor will be engaged to perform work related in a highly confidential and proprietary environment. All technical specifications, submittals and other documentation related to this project are considered confidential information and must remain secure at all times.

1.4 WORK INCLUDED

A. Furnish and install complete walk through type metal detectors at various County buildings.

B. Equipment to be installed, positioned, programmed, started up, calibrated and tested by a trained factory authorized technician.

C. Provide all set up and programming as coordinated with County Security Officers.

D. Include all demolition and disposal of existing units.

E. Train the County staff regarding operation and maintenance of new equipment.

F. Refer to Section 281000 GENERAL REQUIREMENTS as well as Bidding and Contract Requirements including those issued by Oakland County Purchasing for a complete understanding of the project scope of work requirements.

1.5 WORK NOT INCLUDED

A. 120 volt receptacle required for unit power is existing. This contract does not include any 120 volt wiring revisions.

1.6 QUALITY ASSURANCE/RELIABILITY

A. Installation shall comply with all applicable codes.

B. All equipment shall be new, in current production, and the standard products. Manufacturer shall be certified as complying with the standards of ISO-9001 for quality control.

C. **CEIA** Metal Detectors comply with regulatory requirements for human exposure to electromagnetic fields. **CEIA** submits its devices to testing by bodies qualified to check compliance with the emission limits of the main standards currently in force, which are listed in the section “Conformity to Regulations – Human Exposure to Electromagnetic Fields” (documentation available on request).

D. Unit shall conform to ASTM F2401-04 standard “Standard Practice for Security Checkpoint Metal Detector Screening of Persons with Medical Devices”.

E. Unit shall conform to Standards documented in ASTM C 1270-97 and ASTM C 1309-97.

F. Manufacturer shall guarantee availability of parts, for a minimum of (7) years from date of Owner Acceptance.

G. System shall be installed and programmed by a factory authorized and approved contractor with technicians specifically trained on this system.

H. On-site maintenance and repair service shall be available locally and within (4) hours of notification for emergency conditions.

1.7 WARRANTY

A. System shall include a factory warranty that equipment is free from defects in design, material, manufacturing, installation and operation for a period of one year from date of Owners acceptance. Refer to Owners Acceptance requirements described under Section 281000 General Requirements.

B. Service Technician’s performing warranty repair must be factory authorized and trained

1.8 SUBMITTALS

A. Include with the bid, general product literature depicting the equipment being provided with the bid.

B. Submit for approval, complete equipment shop drawings including equipment list, data sheets, system description and block diagrams, etc. Include complete equipment performance specifications. Include all literature and documentation required to verify conformance with specifications.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. The following are acceptable system manufacturers:

1. The base bid units shall be a **CEIA** HI-PE Multi-Zone Plus.

2. Bidders may provide a Deduct Alternate for a Garrett PD 6500i. Refer to Section 012300 Alternates.

2.2 DETECTION CAPABILITY

A. The metal detector shall be a walk thru type unit. Metal detection equipment shall detect magnetic and non-magnetic metal weapons and mixed alloy metal contraband items carried on a person, however they are worn through the archway, independently from their orientation, trajectory and transit speed (range: 0.5 – 1.3 m/s).

B. The detection capability of the metal detection shall be stable without variation. The metal detector shall not require periodic recalibration.

C. The metal detector shall allow for direct selection of International Security Standards.

D. The calibration samples shall be available at the competent Authority’s Premises for the setting of the Working Parameters during the tests.

2.3 PROGRAMMING

A. The metal detection programming access shall be protected by a mechanical lock and by a password made up of 6 alphanumeric characters.

B. The metal detector shall use a microprocessor controlled programmable electronic control unit.

C. The metal detector shall have two independent levels of programming (user and super user) each one protected by a password.

D. The metal detector shall have optional programming methods as follows:

1. Local using keypad on the control unit.

2. Remote through a RS232 port and a laptop.

3. Ethernet interface. Note the ethernet interface will not be wired at this time however the feature shall be available for future use.

2.4 GENERAL REQUIREMENTS

A. The metal detector shall be fitted with 60 localized Multi-Zone (20 Vertical x 3 Lateral) four full-height luminous bars, placed one at the left side & right side of the entrance and one at the right side & left side on the exit side of the archway. The bars indicate the position of metal objects causing alarm with a minimum resolution of 35 cm.

B. The metal detector control unit is fitted with an optical display alarm and messages notifications, clearly visible and readable at a minimum distance of 5 m. The optical alarm display provides a bar-graph indication proportional to the metal mass in transit. Signals below the alarm threshold are displayed in green, whilst those above the threshold are displayed in red.

C. The metal detector shall be equipped with an audible alarm signal adjustable in duration, tone and volume. The minimum volume available at operator level is determined by an appropriate programming parameter at super user level.

D. The metal detector shall display the Security Level at start-up.

E. The metal detector shall provide the operator with appropriate acoustic and optical signals during start-up and normal operation.

F. The metal detector shall include an anti-tamper ON/OFF switch.

G. The metal detector shall operate normally even when two metal detectors are installed at a reciprocal gate distance of 5 cm, without the use of synchronization cable(s).

H. Multi zone metal detectors shall be equipped with sensitivity filter options for discrimination of personal metal effects which establishes a high transit flow-rate.

I. The metal detector shall be equipped with a self-diagnosis system which ensures the immediate signaling of faults or performance changes both at start-up and during operation.

J. The construction of the metal detector shall be modular in order to make any maintenance operation on electronic and mechanical parts easy.

K. The metal detector shall provide high immunity for mechanical and electromagnetic interference.

2.5 MECHANICAL SPECIFICATIONS

A. Minimum height of the Transit Area: 80 inch (2030 mm).

B. Minimum width of the Transit Area: 28 inch (710 mm).

C. The metal detector shall be a stand-alone unit, provided with smooth, robust and washable surfaces.

D. The metal detector archway shall be equipped with four anchoring points to the floor and, once installed; it shall be capable to withstand a force of 80 kg at 2 m from the ground without falling down.

E. The metal detector shall be equipped in the lower side with protections against damages due to bumps of floor cleaning machineries or other equipment or substances.

F. The display and the keypad of the metal detector shall be protected by a plastic transparent cover lockable by a key.

2.6 ENVIRONMENTAL CHARACTERISTICS

A. Storage temperature: from -31°F (–35°C) to 158°F (70°C).

B. Working temperature from -4°F (-20°C) to 158°F (+70°C).

C. Relative storage humidity: from 0 to 95 % without condensation.

D. Relative working humidity: from 0 to 95 % without condensation.

E. Electrical Safety, harmlessness and certifications.

F. The metal detector walk-through unit shall be certified by an accredited Laboratory as conforming to International Standards on the Human Exposure to Electromagnetic Fields.

G. Electrical Safety: For safety reasons, in order to prevent any probability of electrical hazard, the unit shall be powered by a nominal voltage to ground not exceeding 50 volts AC, to prevent the risk of people in transit coming into accidental contact with parts of the gate powered at mains voltage. Provide a 120 volt input power supply with an output voltage not exceeding 50 volts as stated above.

H. Metal detector shall use CW (continuous wave) magnetic fields (pulsed fields Metal Detection equipment is not allowed) for best pace-maker and vital supports harmlessness.

I. Metal detector shall not interfere with medical devices such as hearing aids, cardiac stimulators, defibrillators, neurological stimulators. Manufacturer shall supply a specific certificate, issued by an Accredited Laboratory that states the conformity to this requirement on the basis of experimental measurements.

PART 3 EXECUTION

3.1 INSTALLATION

A. Units shall be installed by factory authorized qualified technicians who are factory trained and certified.

B. Installation shall be in strict accordance with the manufacturer’s installation and user manual.

C. Observe current regulations regarding electrical and personal safety for both the operator and the installer when installing the device.

D. Prior to completion of the installation, the detector must be anchored to the ground in a stable manner and not subject to vibrations (use expansion screws inserted through the anchoring holes in the base of the panels). All connecting cables between the gate and the power supply or other external devices must be properly fixed and protected so as to achieve the best performance from the detector and avoid accidental injury to people who might trip over them.

E. Before powering up the device, check that the power supply voltage corresponds to the voltage shown on the device's electrical specifications plate. Verification that the power supply conforms to the specified values plate and to the regulations in force is the total responsibility of the installer.

F. Installer shall be responsible for selecting the appropriate security level/sensitivity for their application based on coordination with the county security officer.

G. In general units shall be located to replace units being removed, however minor adjustments shall be made where required for proper operation. Locate units for proper centering with respect to the X-ray unit and orientation. Maintain the recommended separation to X-ray unit.

H. All programming passwords shall be approved and assigned by the County Security Officer.

I. All programming shall be performed in the presence of the County Maintenance staff. All programming shall be local accomplished. Provide the County a copy of all programming on a flash drive prior to completion of project.

J. Where multiple units are installed the installation shall be in strict accordance with the manufactures requirements in order to synchronize each unit with the other ones.

K. Final inspection shall include:

1. Visual inspection of connectors and power supply cables.

2. Floor anchoring inspection: Ensure that the archway is firmly anchored to the floor.

3. Cross-bars inspection: Ensure that the cross-bar screws are properly tightened.

4. Control unit inspection: Ensure that the mounting screws are properly tightened.

5. Verification of proper programming.

3.2 SYSTEM TEST PROCEDURES

A. System shall be completely tested to assure operation in accordance with specification requirements.

B. All testing shall be performed by a factory authorized technician.

C. Testing shall confirm proper programming, calibration and operation of detection field.

D. Testing shall be in strict accordance with manufactures requirements and published test procedures.

E. System shall be tested in presence of owner's representative.

F. All equipment devices, wiring, components, etc. shall be tested prior to being placed on line.

G. Submit for approval, for each unit a separate and specific test report. Test report shall indicate unit serial number as well as unit installation location. Indicate each test performed and results of testing. Include name and telephone number of factory authorized technician who performed unit testing.

3.3 TRAINING

A. Provide user training at the facility as scheduled with Oakland County Security officers. Refer to General Requirements. All training shall be performed by a factory authorized technician.

3.4 MANUALS AND DRAWINGS

A. Contractor shall provide owner with (3) copies of standard factory prepared operation, installation and maintenance manuals. Manuals shall include typical wiring diagrams.

END OF SECTION 282000

SECTION 283000 – X-RAY INSPECTION UNITS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes X-ray inspection units. The X-ray screening equipment specified herein will be used in such a manner as to prohibit the introduction of explosives, firearms, knives, and/or other potential threat objects or contraband into the facility.

B. The equipment covered by this specification shall provide a means by which packages, letters, envelopes, enclosures, etc. entering the facility will be examined to insure that no weapons and/or potential explosives/contraband are being transported into a secured area.

C. Attention is directed to all Bidding and Contract Requirements and General Requirements, including those issued by Oakland County Purchasing, as well as all other specification sections, which are hereby made a part of this Section.

1.2 THE CONTRACTOR

A. Where the term "Contractor" is referred to in these specifications or on plans, it shall refer to the company or entity that holds the contract with Oakland County. The contractor shall be responsible to furnish and install all equipment and leave the installed equipment ready for beneficial use by the County.

1.3 CONFIDENTIAL DOCUMENTS

A. The Contractor will be engaged to perform work related in a highly confidential and proprietary environment. All technical specifications, submittals and other documentation related to this project are considered confidential information and must remain secure at all times.

1.4 WORK INCLUDED

A. Furnish and install complete X-ray inspection units at various County buildings.

B. Equipment to be installed, positioned, programmed, started up, calibrated and tested by a trained factory authorized technician.

C. Provide all set up and programming as coordinated with County Security Officers.

D. Include all demolition and disposal of existing units.

E. Train the County staff regarding operation and maintenance of new equipment.

F. Refer to Section 281000 GENERAL REQUIREMENTS as well as Bidding and Contract Requirements including those issued by Oakland County Purchasing for a complete understanding of the project scope of work requirements.

1.5 WORK NOT INCLUDED

A. 120 volt receptacle required for unit power is existing. This contract does not include any 120 volt wiring revisions.

B. Data wiring and jack required for unit is existing. This contract does not include any data wiring or jack revisions.

1.6 QUALITY ASSURANCE/RELIABILITY

A. Installation shall comply with all applicable codes.

B. All equipment shall be new, in current production, and the standard products.

C. Manufacturer must be listed on FAA-TSA TRX (TIP Ready X-ray) Qualified Vendor approved supplier list - copy of QVL approval must be available on request.

D. Internationally certified ISO 9001 quality standard shall have been maintained by the manufacturer's factory for a minimum of 5 years.

E. Proposed X-ray machine must be certified by the Department of Homeland Security as an Approved Product for Homeland Security under the SAFETY Act of 2002.

F. Manufacturer shall guarantee availability of parts, for minimum of (7) years from date of Owner Acceptance.

G. System shall be installed and programmed by a factory authorized and approved contractor with technicians specifically trained on this system.

H. On-site maintenance and repair service shall be available locally and within (4) hours of notification for emergency conditions.

1.7 WARRANTY

A. System shall include a factory warranty that equipment is free from defects in design, material, manufacturing, installation and operation for a period of one year from date of Owners acceptance. Refer to Owners Acceptance requirements described under Section 281000 General Requirements.

B. Service Technician’s performing warranty repair must be factory authorized and trained

C. Service calls are to be placed directly to a dedicated service support line.

1.8 SUBMITTALS

A. Include with the bid, general product literature depicting the equipment being provided with the bid.

B. Submit for approval, complete equipment shop drawings including equipment list, data sheets, system description and block diagrams, etc. Include complete equipment performance specifications. Include all literature and documentation required to verify conformance with specifications.

C. Include dimensional data including dimensions of all components and equipment included.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. The following are acceptable system manufacturers:

1. Heimann HI-SCAN 6040i.

2. Other manufacturers and/or equipment may be bid as a Voluntary Alternate.

2.2 GENERAL REQUIREMENTS

A. The equipment shall be new, unused and shall be from the manufacturer's latest product offering and incorporate the manufacturer's newest technology and electronic design. All design and performance specifications shall be documented on the manufacturer's product data sheets through photographs of the unit, the unit's dimensional drawings and the unit's performance specifications.

2.3 PROGRAMMING

A. Programming access shall be protected by a mechanical lock and by a password made up of 6 alphanumeric characters.

2.4 PHYSICAL CHARACTERISTICS

A. The Weight: Not more than 882 pounds.

B. Overall Unit Dimensions: Not greater than 79 in. (L) x 33.5 in. (W) x 51 in. (H).

C. Minimum Tunnel Size: 24 inches Wide x 16 inches High.

D. Power Requirement: 120 VAC.

E. Design durability: Both the entrance & exit conveyor shall be surrounded by stainless steel. Stainless steel shall be utilized at the top and sides of the tunnel, edges of conveyor belt, and outer corners of entire system. Must be mounted on roller castors for easy movement.

F. Side panels of the unit shall be split and hinged for easy serviceability.

G. Must have the ability to integrate a radioactive material detector in the conveyor.

H. Conveyor belt must be one continuous piece and cannot be equipped with zippers or stitched/stapled.

2.5 X-RAY GENERATOR

A. Hermitically sealed, oil bath, single tank.

B. Maximum 160 kV cp, operated t 140 kV cp.

C. Standard 0.2 mA, with HI-MAT: 0.4 mA, with X-ACT: 0.6 mA.

D. 60 degree diagonal beam divergence from top to bottom.

2.6 IMAGING

A. Minimum Penetration: 31 mm of steel typical.

B. Resolution: greater than 40 AWG copper wires typical.

C. Digital Video Memory: 1280 x 1024 / 24 bit.

D. Grey Contrast: 22 Visible/Grey Contrast Levels.

E. Grey Levels: 4096 Stored.

F. Color Presentation of images on monitor showing Organic Materials as Orange, Inorganic Materials as Blue, and Mixed Materials as Green.

G. Image Processing/Conversion: 14-bit Analog to Digital conversion rate.

H. Monitor: 19” LCD, Color

2.7 DESIGN AND PERFORMANCE REQUIREMENTS

A. Long-Life Generator: Design shall be hermetically sealed oil-bath equipped with internal bellows expansion module with no oil breathing tube or tank. 140 kV operational power. Standard current shall not exceed 0.4 mA. Beam direction shall be diagonal with an L-shaped detector line.

B. Photo sensors at the entrance and exit of the unit's tunnel shall activate and terminate the scanning process. As required in most national and international regulations regarding X-ray safety and use of X-ray equipment, photo sensors reduce the X-ray generator on-time. The scanning process shall not be activated simply by starting the conveyor belt, which causes the X-ray generator to always be on and heightens X-ray emissions.

C. Automatic Dense Area Detection and Enhancement: The system shall automatically identify dense areas and apply the High Penetration function to only the dense area of the bag without lightening the surrounding objects.

D. Infinite Stripping Capability: The unit shall incorporate the ability to strip layers of density in an infinite manner as opposed to a step method.

E. Material Discrimination: Dual-Energy HI-MAT+ Organic/Inorganic Presentation showing Organic=Orange, Inorganic=Blue, Mixed=Green.

F. Real-time Operation: All features shall be accessible to the operator without having to stop the belt.

G. Bi-Directional Scanning: The unit shall produce an image in both the forward and reverse belt direction.

H. Zoom: Stepless (or continuous) up to 16-times. Zoom function shall be available on partial images during the image generation process without stopping the belt. Continuous zoom with single push of zoom feature.

I. Zoom Position Locator Box: In the zoom mode, the full image shall be displayed to the operator in the lower right of the monitor with the zoomed area highlighted.

J. Panning Zoom Pad: The zoom feature shall be controlled via a touch-pad without the use of a mouse or trackball.

K. Automatic Zoom Function: The unit shall automatically magnify the screened image to utilize the entire available monitor space.

L. Stored Image Review: At least 20 images shall be stored and retrievable by the operator for review without having to reverse the belt and rescan the item(s).

M. Programmable Function Keys: All keyboard function keys shall be user programmable via a drop down menu without the assistance of factory personnel. All programming functions shall be accessible via the unit's primary keyboard without the need to connect a supplemental PC-style keyboard.

N. Computer-Based Operating System: All imaging functions shall be achieved via a PC-Based operating system, Linux-based preferred.

O. System Upgradeability: Future software upgrades or function enhancements shall be achieved without the need to replace or exchange any hardware components.

P. The program shall include an Image Management System (IMS) to store images for follow-up training or review. This program must have the capability of storing a single image or all images of scanned items using one key on the unit's primary keyboard.

Q. The system shall include automated detection software that identifies suspicious and high absorbing materials. The program would automatically produce an online frame around suspicious materials, including suspected explosives and narcotics.

R. File Export: Unit must have ability to export images in TIF or JPEG file format including automatic transmission to PC via Ethernet

2.8 ENTRY AND EXIT TABLE OPTIONS

A. Include entry and exit roller tables with a minimum length of 1 meter (39 in.) roller table

2.9 NETWORKING OPTIONS

A. System must be networked.

B. Data wiring and jacks required for ethernet are existing.

C. System must be able to perform and Automated Remote Image transfer over customer network for image archiving.

D. Manufacturer must have servers available for image archiving.

PART 3 EXECUTION

3.1 INSTALLATION

A. Units shall be installed by factory authorized qualified technicians who are factory trained and certified.

B. Installation shall be in strict accordance with the manufacturer's installation and user manual.

C. Observe current regulations regarding electrical and personal safety for both the operator and the installer when installing the device.

D. Prior to completion of the installation, the X-ray inspection equipment must be anchored to the existing slab in a rigid manner and not subject to vibrations. All connecting cables between the X-ray unit, monitor, system processor or other external devices must be properly fixed and protected so as to achieve the best performance and physical protection.

E. Before powering up the device, check that the power supply voltage corresponds to the voltage shown on the device's electrical specifications plate. Verification that the power supply

conforms to the specified values plate and to the regulations in force is the total responsibility of the installer.

F. In general units shall be located to replace units being removed, however minor adjustments shall be made where required for proper operation. Locate units for proper centering with respect to the X-ray unit and orientation. Maintain the recommended separation to metal detectors.

G. All programming passwords shall be approved and assigned by the County security officer.

H. All programming shall be performed in the presence of the County Maintenance staff. All programming shall be local accomplished. Provide the County a copy of all programming on a flash drive prior to completion of project.

I. Final inspection shall include:

1. Visual inspection of connectors and power supply cables.

2. Floor anchoring inspection: Ensure that the archway is firmly anchored to the floor.

3. Verification of proper programming.

4. Verification of proper operation.

3.2 SYSTEM TEST PROCEDURES

A. System shall be completely tested to assure operation in accordance with specification requirements.

B. All testing shall be performed by a factory authorized technician.

C. Testing shall confirm proper programming, calibration and operation of detection field.

D. Testing shall be in strict accordance with manufactures requirements and published test procedures.

E. System shall be tested in presence of owner's representative.

F. All equipment devices, wiring, components, etc. shall be tested prior to being placed on line.

G. Submit for approval, for each unit a separate and specific test report. Test report shall indicate unit serial number as well as unit installation location. Indicate each test performed and results of testing. Include name and telephone number of factory authorized technician who performed unit testing.

3.3 TRAINING

A. Provide user training at the facility as scheduled with Oakland County Security officers. Refer to General Requirements. All training shall be performed by a factory authorized technician.

B. In addition to training listed under General Requirements, The system shall include an On-the-Job operator training program installed on the X-ray machine that is accessible and operated via the unit's primary keyboard. This program is installed on the X-ray machine for all operators to use during down time on their shifts. The operator shall be able to switch back and forth between the training program and real time.

C. The system shall include an FAA/TSA-Certified Threat Image Projection program (TIP) for operator testing and training. The TIP program shall be approved by TSA for use in U.S. airports. The bidder shall provide a copy of their TSA Qualified Vendor Letter (QVL) for TIP-Ready (TRX) X-ray machines in their bid documentation.

3.4 MANUALS AND DRAWINGS

A. Contractor shall provide owner with (3) copies of standard factory prepared operation, installation and maintenance manuals. Manuals shall include typical wiring diagrams.

END OF SECTION 283000